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FOREST SERVICE ATLAS,
STATISTICS,
1907.



7.73

FOREST SERVICE
Gunnison Fational Forest
Gunnison, Colorado.

OCT 2 1909
RECEIVED

Answered.....

- 2



UNITED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE GIFFORD PINCHOT, FORESTER

FOREST SERVICE ATLAS

EXTRACTS FROM THE STATISTICAL VOLUME OF THE FOREST ATLAS FOR THE FISCAL YEAR 1907



COMPILED BY THE OFFICE OF GEOGRAPHY

 $W\,A\,S\,H\,I\,N\,G\,T\,O\,N$ engraved and printed by the u. s. geological survey $1\,9\,0\,8$



LETTER OF TRANSMITTAL

U. S. DEPARTMENT OF AGRICULTURE,
FOREST SERVICE,
Washington, D. C., June 15, 1908.

SIR: I have the honor to transmit herewith extracts selected from the statistical volume of the Forest Atlas for 1907, and to recommend their publication.

Respectfully,

GIFFORD PINCHOT,
Forester.

Hon. James Wilson,
Secretary of Agriculture.

EXPLANATORY

The following pages show selected extracts from the statistical volume of the Forest Atlas for the fiscal year ended June 30, 1907. A manuscript volume is compiled each year by the Office of Geography, and the facts set forth constitute an official reference record of the work of the Forest Service for the fiscal year. In order to make the Atlas more valuable as a work of reference, there is included, in addition to the Forest Service reports, information on various other subjects related to forestry, which is taken from official and authentic sources.

Since many members of the Forest Service have no opportunity to consult the original volumes, these pages are reproduced for their information and convenience. On the diagrammatic maps each National Forest is represented by a square, proportionate to its area, which is placed as near as possible to the actual geographic location of the Forest. The exact location of the squares, however, is of only secondary importance, because the principal purpose of the diagrams is to indicate the proportionate areas, conditions, and transactions upon the Forests in a direct and graphic manner.

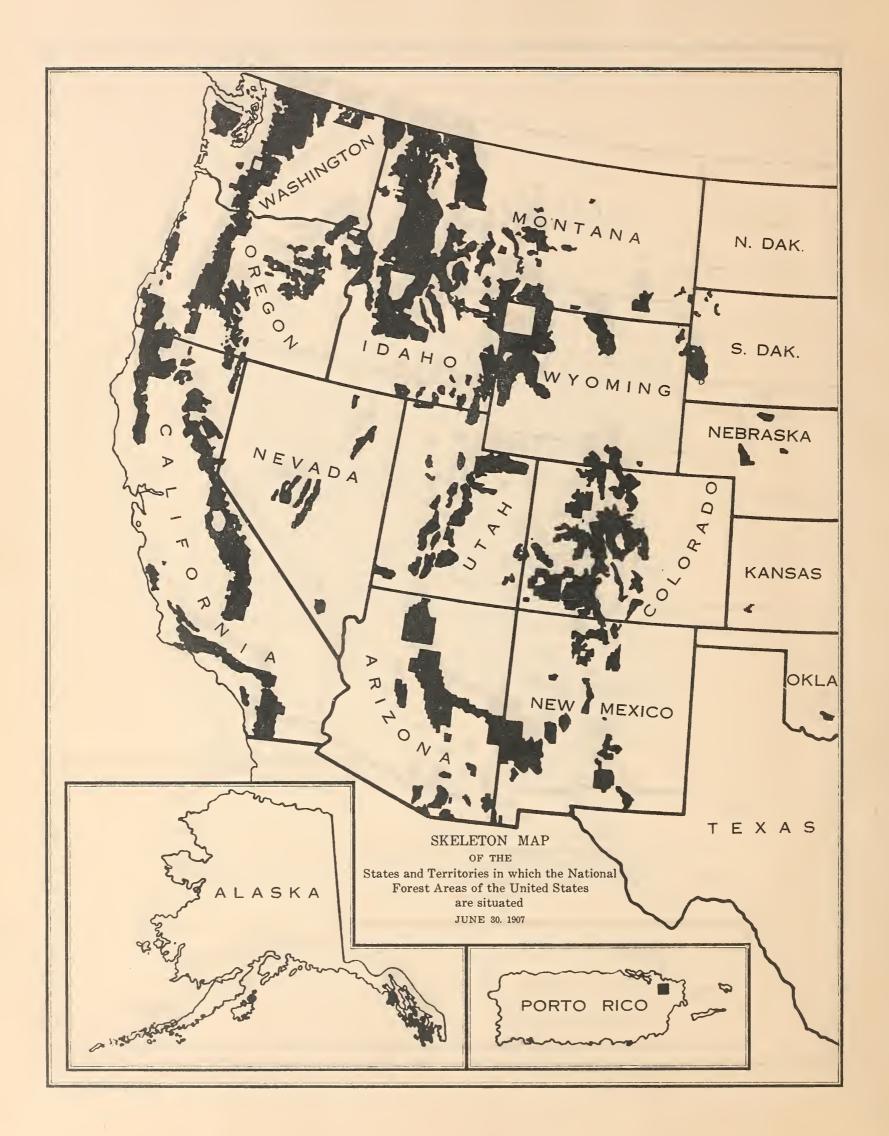
The information presented is thought to be of interest not only to the members of the Service but to the users of the National Forests as well. This Atlas is not designed for general circulation, but a limited number of copies will be reserved for distribution among libraries, educational institutions, and associations devoted to the interests of forestry or to the conservation of other natural resources.

FRED G. PLUMMER.

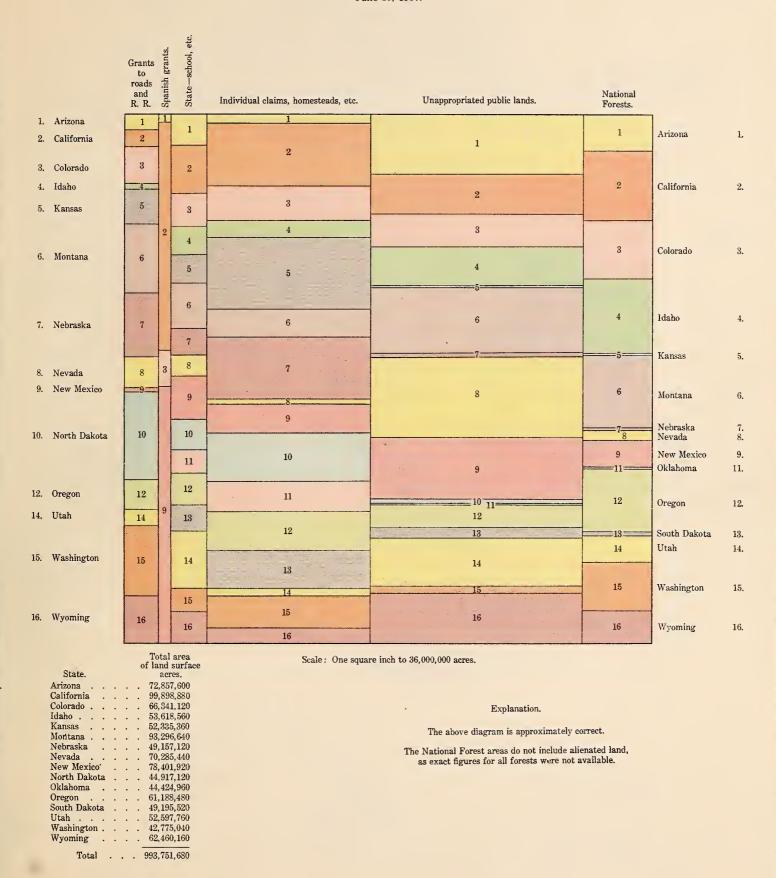
Geographer.

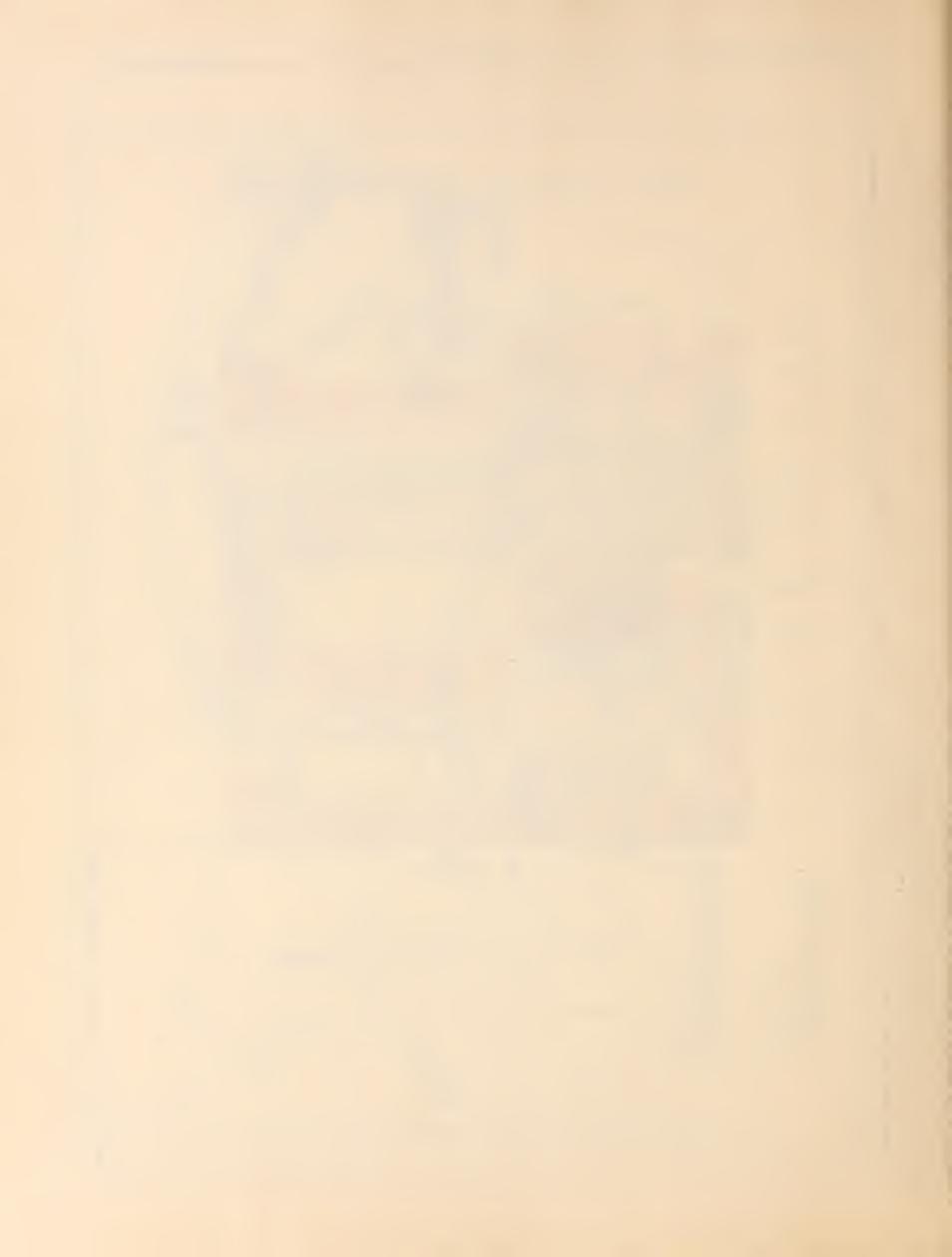
LIST OF MAPS, DIAGRAMS, AND TABLES

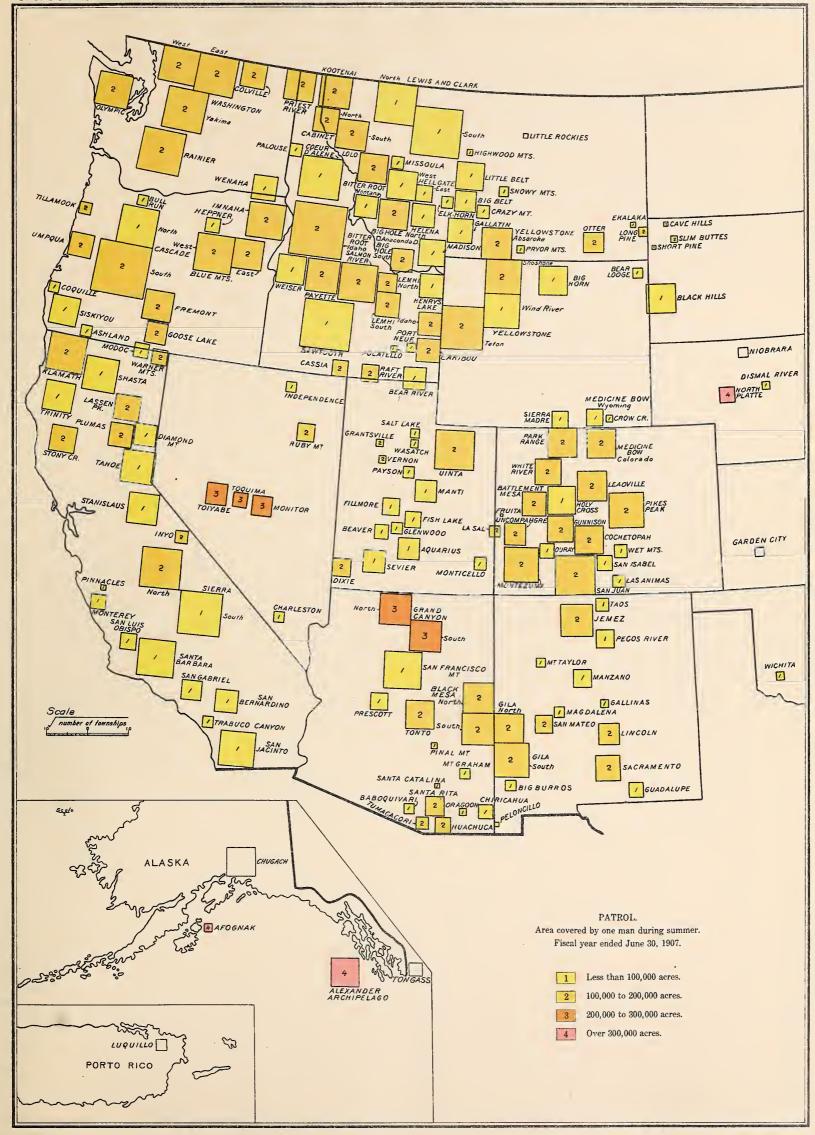
T. com	Page
Lands: Disposal of lands in the sixteen Western States	. 1
	. '
STATISTICS OF THE NATIONAL FORESTS:	. 2
PATROL—Area covered by one man during summer	
Area covered by one man during winter	
Cost per acre	
FOREST FIRES—Number of acres burned per 1000 acres	
COMMUNICATION—Number of miles of roads, railways, trails, telegraph	
and telephone lines on National Forests	
PERMANENT IMPROVEMENTS: Amounts allotted	
RECEIPTS: Proportion of receipts from grazing, timber sales, special uses,	
and other sources	
GROWTH: Diagram of growth of Forest Service from 1900 to 1907	
Timber: Sales, number of	
Free use permits, number of	
GRAZING—Average number of cattle and horses grazed under each permit.	
Average number of sheep and goats grazed under each permit	
Cattle and horses: Proportionate number of permits issued for	
each grade	
Sheep and goats: Proportionate number of permits issued for	
each grade	
Proportion of cattle to sheep	
USE OF NATIONAL FOREST LANDS AND RESOURCES—Kind and number	
of permits and number of timber sales since creation of the	
National Forests	20
SILVICS—Classification and proportion of species within National Forests.	21
MISCELLANEOUS FOREST STATISTICS:	
COOPERATION Wood lots, number of, by states	22
Timber tracts, number of, by states	22
Timber—Tests made, location of	23
Output of treating plants	23
Distillation	24
Preservation	24
Treating plants	24
Measurements	24
Planting plans	25
Laths shingles, tanbark, tanning extracts. and pulpwood	26
LUMBER CUT—By species	27
Products	27
By states	28
Comparison of stumpage values	29
PUBLICATIONS OF FOREST SERVICE:	
Distribution of, by states	30
Per cent to population, by states	30



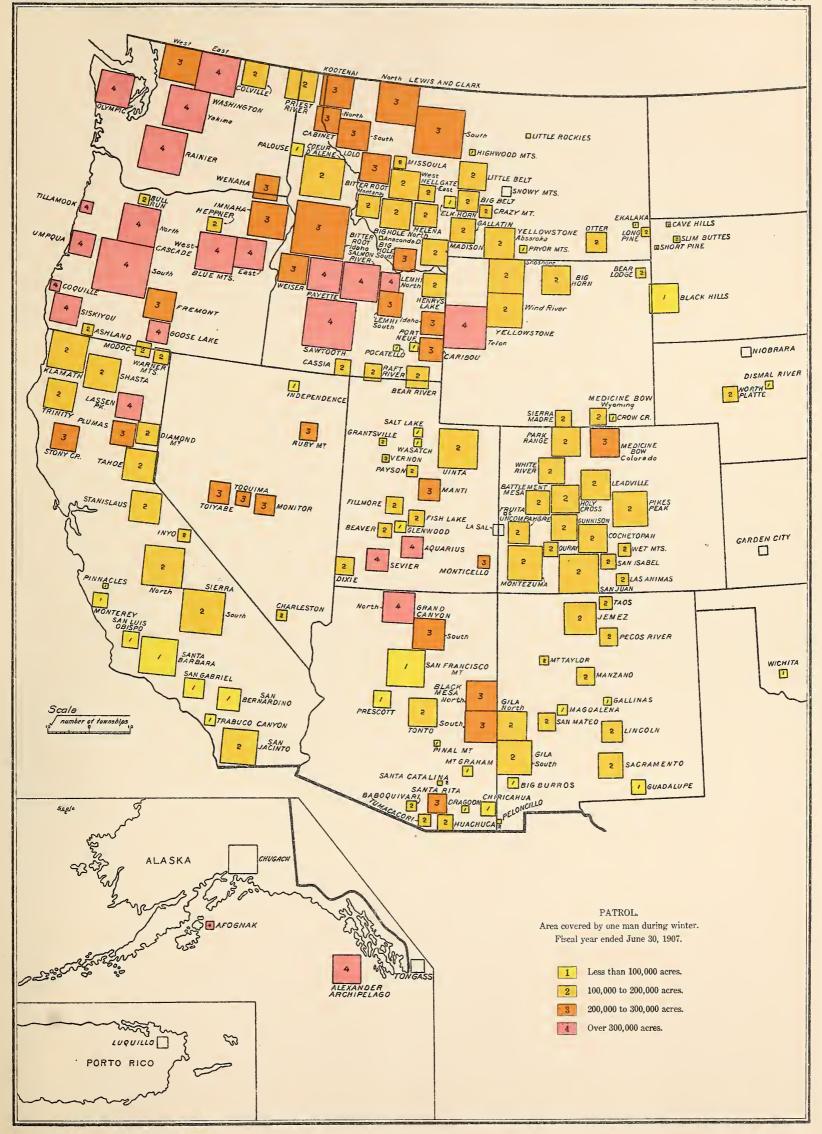
DISPOSAL OF LANDS IN THE SIXTEEN WESTERN STATES. June 30, 1907.





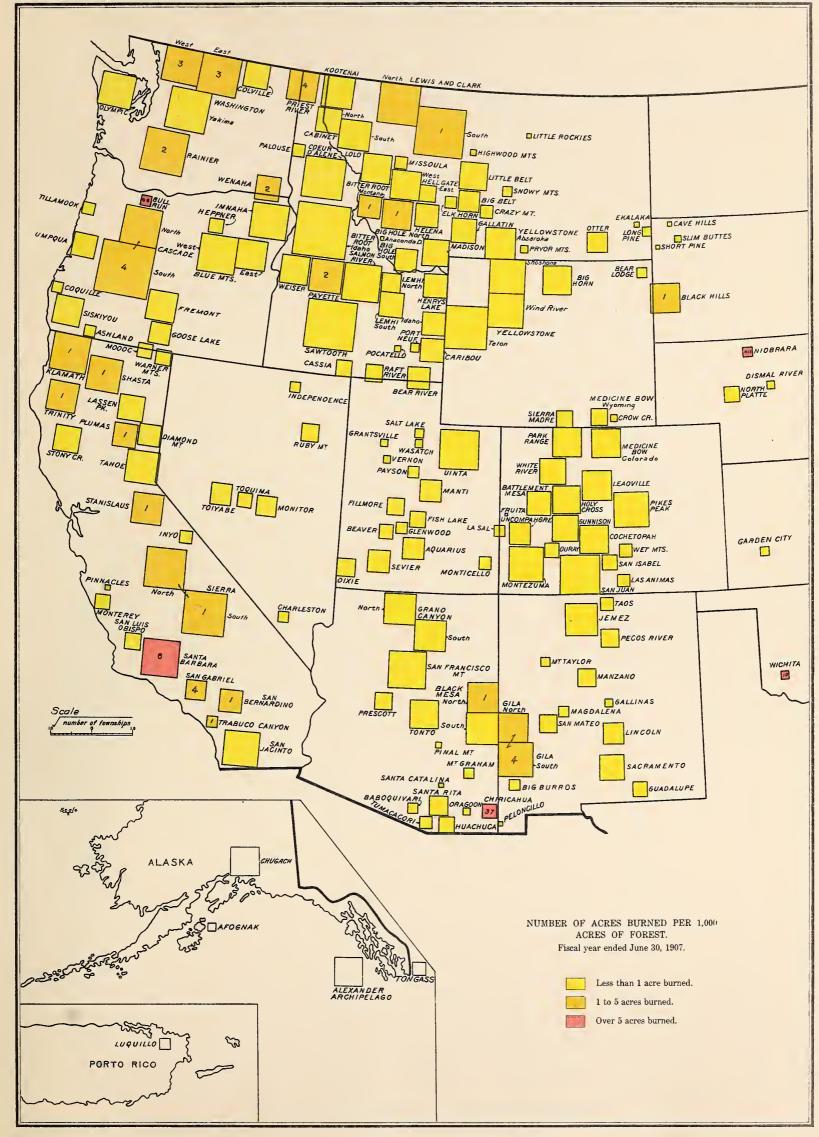


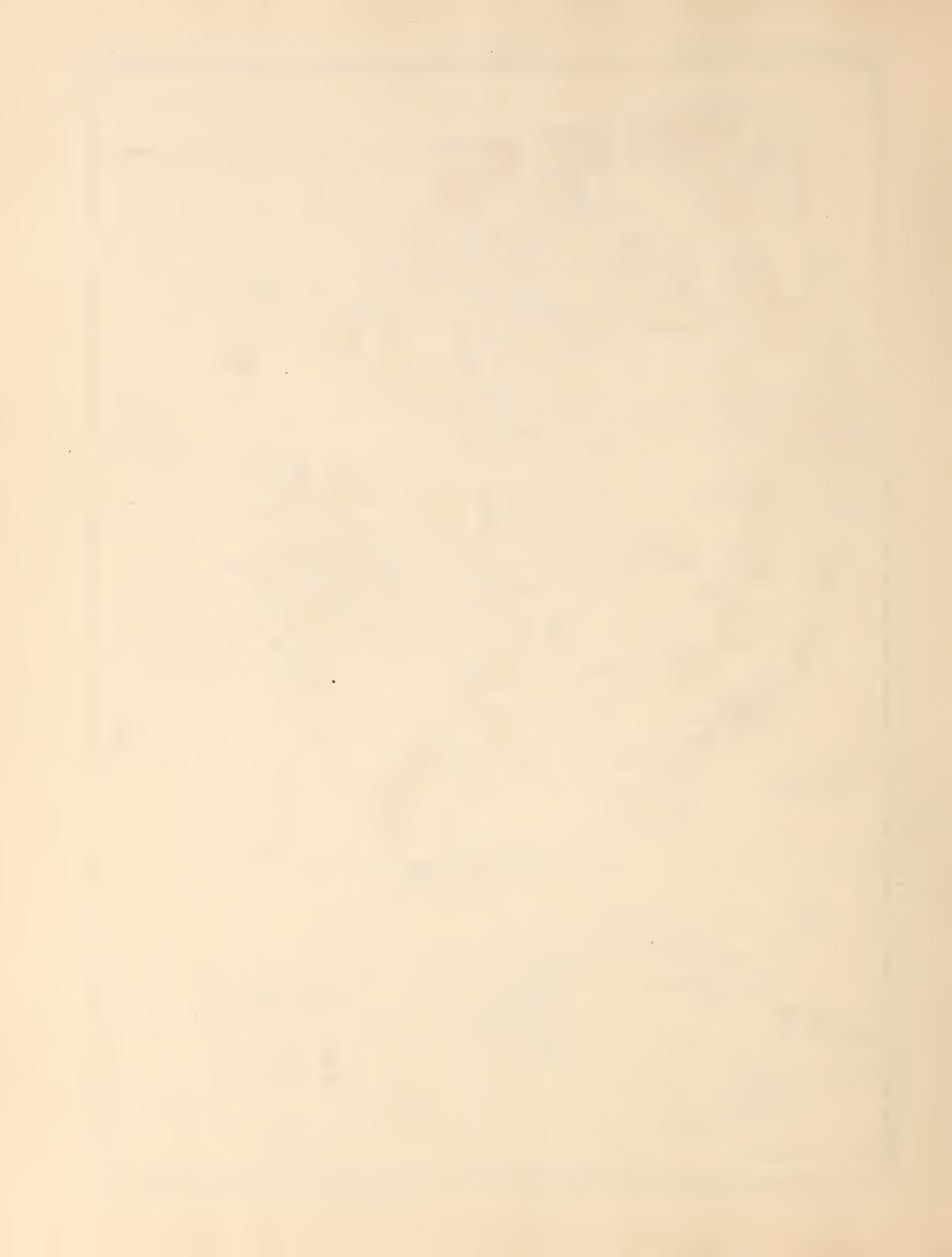












COMMUNICATION.

		Roads.		Railw	ays.	Trails.		Tele-	Telephone lines.	
State and Forest.	County.	Private.	Govern- ment.	Standard gauge,	Narrow gauge or tram.	Private.	Govern- ment.	graph lines.	Private or corporate.	Govern ment.
LASKA:										
Afognak										
Alexander Archipelago			3		5	7			17	
Chugach										
Tongass			1							
RIZONA:										
Baboquivari	l i					1			ł	
Black Mesa (N)	1)		1	1			15	
Black Mesa (S)					Į.					
Chiricahua	4	14				35	15		6	
Dragoon										
Grand Canyon (N)			40				125			
Grand Canyon (S)	!	10	5	25		14]		6	
Huachuca	1									
Mount Graham						1			4	
Pinal Mountains		2			1				_	
Prescott	i	65		41	$5\frac{1}{2}$	30			$153\frac{1}{2}$	
San Francisco Mountains.	50	10		a35		15			20	
Santa Catalina	2						15			
Santa Rita		3		4		3		4	12	
Tonto	10	$4\frac{1}{2}$					125	\		
Tumacacori										
ALIFORNIA:										
Diamond Mountain				3	-		12		1	
Inyo					84				· · · · · · · · · · · · ·	
Klamath	15	10				4.0	^b 250		33	
Lassen Peak	5	4				3			6	
Modoc										
Monterey			 				94			
Pinnacles							3			
Plumas		70		65		45	27		66	
San Benito										
	i l						~4			
San Bernardino		40				25	51			
San Gabriel		8				50	50		30	7
San Jacinto	7	16					25		30	
San Luis Obispo			1				30			
Santa Barbara		100				50	1000		10	
Shasta	3	10			2	25	27	100	44	(
Sierra (N)		83	16	2	8		30		45	
Sierra (S)		40	6			55	65		52	3
Sierra (E)		15				1			10	
Stanislaus		74		74	1	9	8		51	
Stony Creek		~							01	
		1			i					
Tahoe		_			1	1	10			
Trabuco Canyon										
Trinity		10				20	75		27	
Warner Mountains	8	4							20	
OLORADO:										
Battlement Mesa	14	60	63	41			180	43	15	
		3 1		*2			100	_	24	
Cochetopa		98								
Fruita										
Gunnison		15	7			13	72	30	8	
	20	35			1	1		1	6	
Holy Cross		6			-				1	



COMMUNICATION—Continued.

State and Forest.	Roads.			Railways.		Trails.		Tele-	Telephone lines.	
	County.	Private.	Govern- ment.	Standard gauge.	Narrow gauge or tram.	Private.	Govern- ment.	graph llnes.	Private or corporate.	Govern- ment.
COLORADO - Continued:										
Las Animas										
Leadville										
Medicine Bow (Colo. Div.)		6					25			
Montezuma	43	$21\frac{1}{2}$			$2\frac{1}{2}$	91	11/2		19	
Ouray			 							
Park Range		35					5		15	
Pikes Peak	851	138	a14	41	6	25	35	48	85	
San Isabel	_	24	5			9	69			
San Juan	34	474				8	9		27	
Uncompangre		13	1							
Wet Mountains	27	10				23	48			
White River	60	100					50		-3	
white kiver	00	100				250	90		10	
IDAHO:										
Bear River										
Big Hole (S)										
Bitter Root		30				50	300		56	
Cabinet (S)		5				10		,		
Caribou			 							
Cassia		50	10							
Coeur d'Alene						1				
Henrys Lake			1						1	
Kootenai			i			1				
Lemhi (N)			1	1		1			l.	
			1					1		
Lemhi (S)	1		1				1		1	
Palouse										
Payette		ĺ	1				1		71	
Pocatello		1					3			
Port Neuf		5							1	
Priest River	ř	55				150	15			
Raft River		36								
Salmon River										
Sawtooth		2							20	
Weiser	2	9		3		5	1	3	6	
Yellowstone (Idaho Div.)										
VANCAC.										
KANSAS:										
Garden City										
MINNESOTA:										
Minnesota				12						
MONTANA:										
Big Belt		1		5						
Big Hole (Ana. Div.)			(5			
	1		(1						
	1									
. ,				1				1		
Bitter Root (Mont. Div.)										
Cabinet (N)										
Cabinet (S) (See Idaho)										
Crazy Mountains							24		i	
Ekalaka						1		1		
Elkhorn										
Gallatin										
Helena	25	50		8		20				
Hell Gate (E)	7	30				50	6			14
()						1				



COMMUNICATION—Continued.

	Roads.			Railways.		Tr	ails.	Tele-	Telephone lines.	
State and Forest.	County.	Private.	Govern- ment.	Standard gauge.	Narrow gauge or tram.	Private.	Govern ment.	graph lines.	Private or corporate.	Govern- ment.
MONTANA—Continued:	- 1									
Hell Gate (W)										
Highwood Mountains	7	12				9				
Kootenai (See Idaho)										
Lewis and Clark (N)		90		20		50	300			
Lewis and Clark (S)	4		5	63			191	63		
Little Belt		11/2	5		 .					
Little Rockies										
Lolo				23						
Long Pine					[[]]					
Madison	i	78	2							40
Missoula		_								
Otter						i		1		
Pryor Mountains	1	Į.	l					1		1
Snowy Mountains			1				1	1		
Yellowstone (Abs. Div			1							
Tellowstone (Aos. Div		102					90			
NEBRASKA:										
Dismal River					i	1				12
Niobrara										30
North Platte		,								
NEVADA:										
Charleston		5				6				
Independence				1				1		
Monitor			ì	l .		1				
Ruby Mountains			i .	ł	i	l .				i
Tahoe			l .	1		(1			1
Toiyabe			1		i		1			1
· · · · · · · · · · · · · · · · · · ·			1	1			1	1		
Toquima				• • • • • • • • • • • • • • • • • • • •						
NEW MEXICO:										
Big Burros							4			
Gallinas										
Gila (N)							10			
Gila (S)		30			4	10	40		70	
Guadalupe	2	6			,					
Jemez										
Lincoln		65				12	20			
Magdalena										
Manzano	1		1	1	1	I .	t .	1		In a
Mount Taylor										
Pecos River							1		1	
Peloncillo										
Sacramento	1			1 _						
San Mateo		5		1				1		
Taos				1					1	
)KLAHOMA:										
Wichita		28	17				2			1
REGON:										
Ashland										
Blue Mountains (E)		231					25		59	2'
Blue Mountains (W)		_							54	~
Bull Run		2					55		1	
Cascade (N)		130				28	300		_	
Cascade (S)		24	5		2	42	258	8	46	
Coquille	_	24			,-					
Joquino	1	1		1						

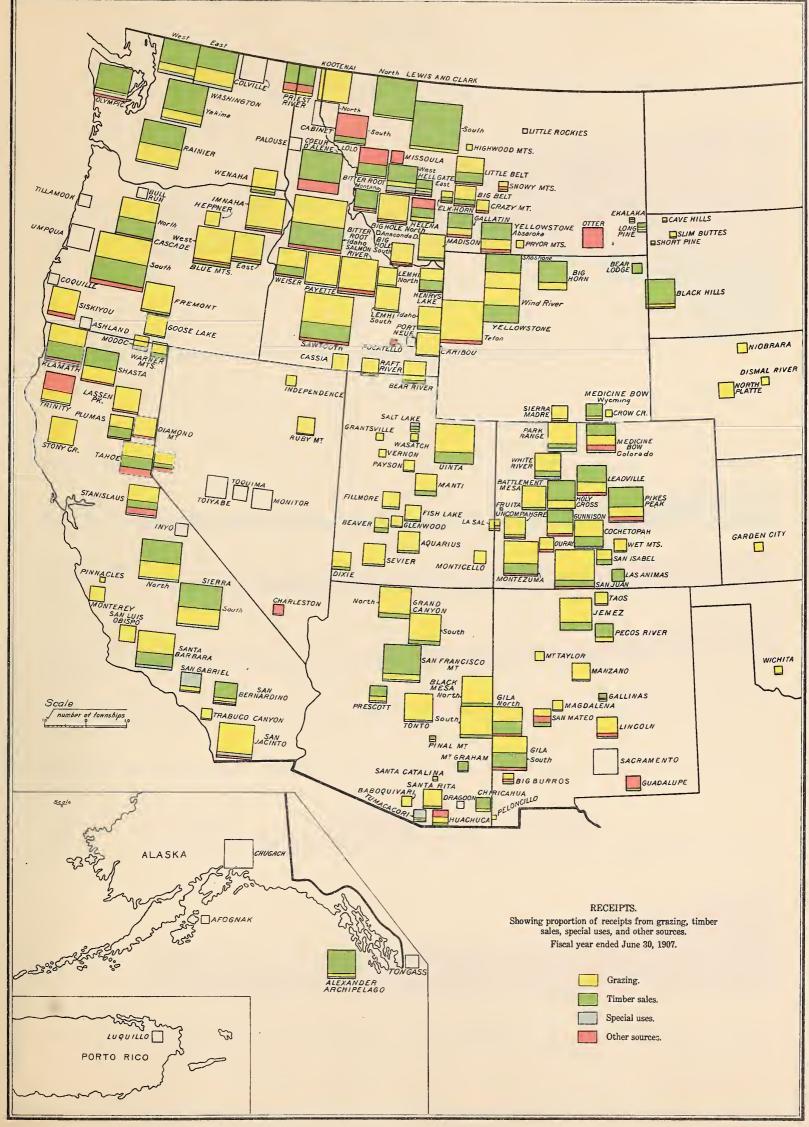


COMMUNICATION—Continued.

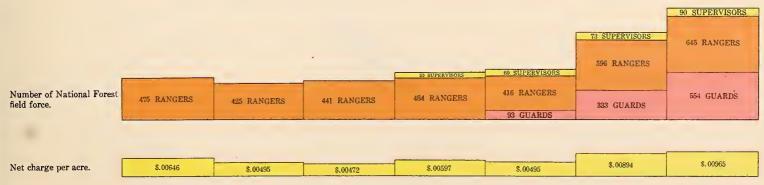
State and Forest.	Roads.			Railw	ays.	Tr	ails.	Tele-	Telephone lines.	
	County.	Private.	Govern- ment.	Standard gauge.	Narrow gauge or tram.	Private.	Govern- ment.	graph lines.	Private or corporate.	Govern- ment.
OREGON - Continued:										
Fremont	17	125	8			4	3		6	
Goose Lake	10	66	4		6				12	
Heppner	54	60							18	
Imnaha	7	32	$\frac{1}{2}$			65	15		4	
Siskiyou										
Tillamook		3				5				
Umpqua									9	
Wenaha	3						<i>}.</i>			
South Dakota:										
	100	50		35	24		+		115	
Black Hills							• • • • • • • • • • • • • • • • • • • •			
Cave Hills		•								1
Short Pine							• • • • • • • • • • •		.,	
Slim Buttes		2							,	
UTAH:										
Aquarius	12						180			
Bear River										
Beaver										
Dixie		15								
Fillmore										
Fish Lake		8								1
Glenwood										
Grantsville		0								1
La Sal (See Colo.)										
Manti	9	46								
Monticello										
Payson										
Raft River (See Idaho)										1
			1		1	1				
Salt Lake		1				1	1		-	4
Sevier										20
Uinta								1		20
Vernon			1		N.	1			i	
Wasatch									34	
WASHINGTON:										
Colville	35						5			44
Olympic			4			25	70			
Priest River	i		ł							
Rainier			8			75	48		21	7
Washington (Chelan Div.)						50	50		30	54
Washington (W)		6	3	1	10	300	10	1/2	14	
Washington (Wenat. Div.)			_	_				-		1
Wenaha (See Oregon)		1	l .	1				7	j	
WYOMING:										
Bear Lodge		1					1			7-1
Big Horn		57								52
Black Hills (See S. Dakota)			l			•		1		
Caribou							i .			
Crow Creek							{			
Medicine Bow (Wyo. Div.)						Į.	1		13	
Sierra Madre							,			
Uinta (See Utah)										
Yellowstone (Shos. Div.)	50		26				250		12	5
			19				200		12	
Yellowstone (Teton Div.)			120				200		12	

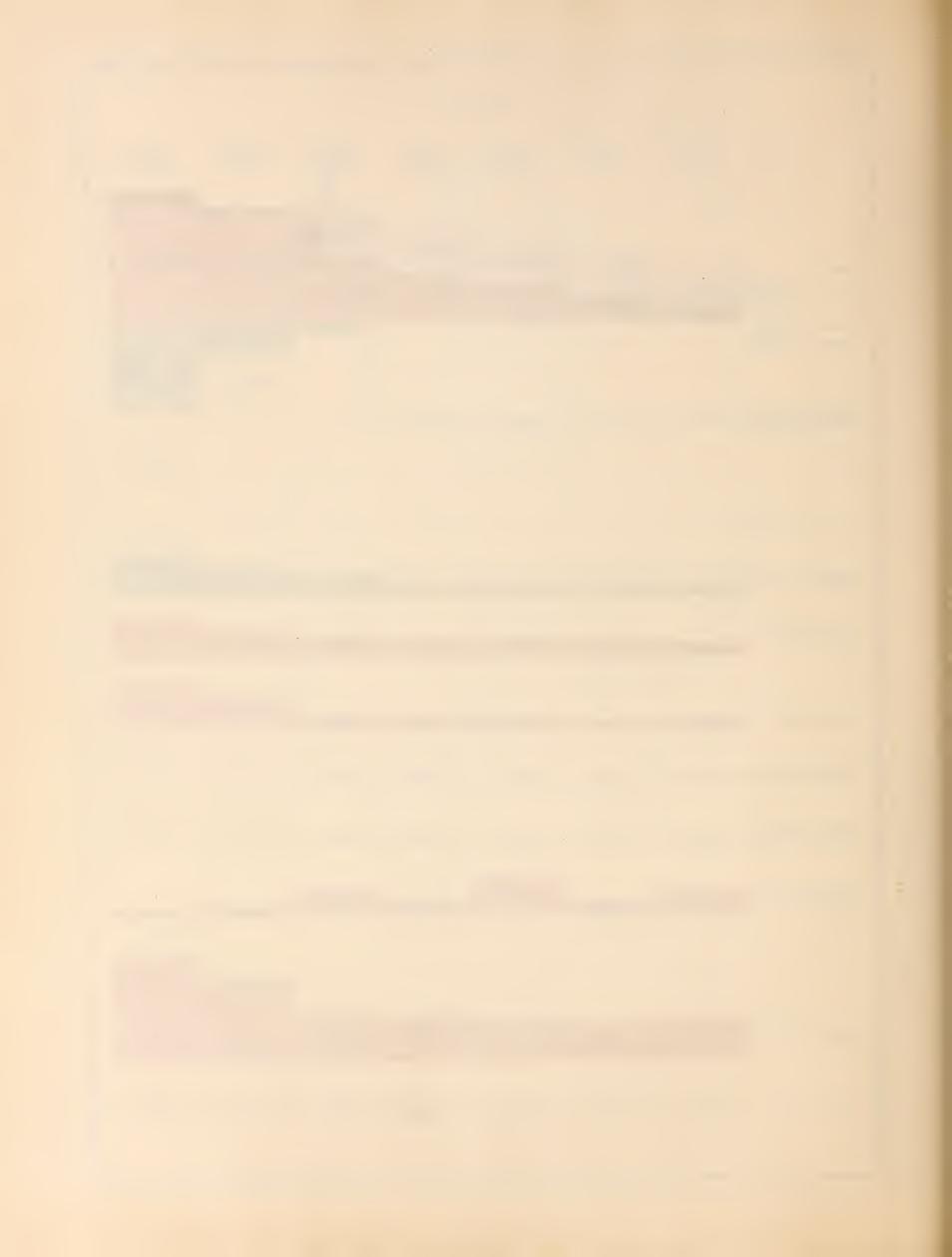




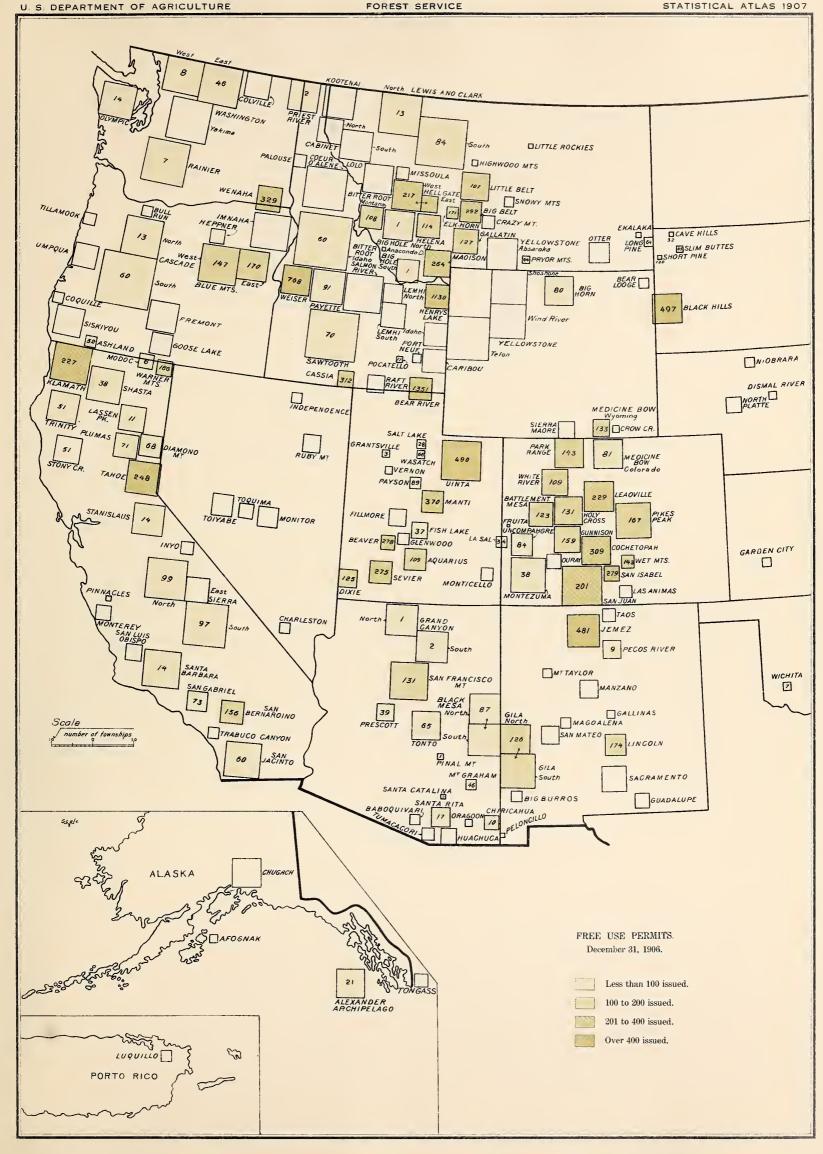


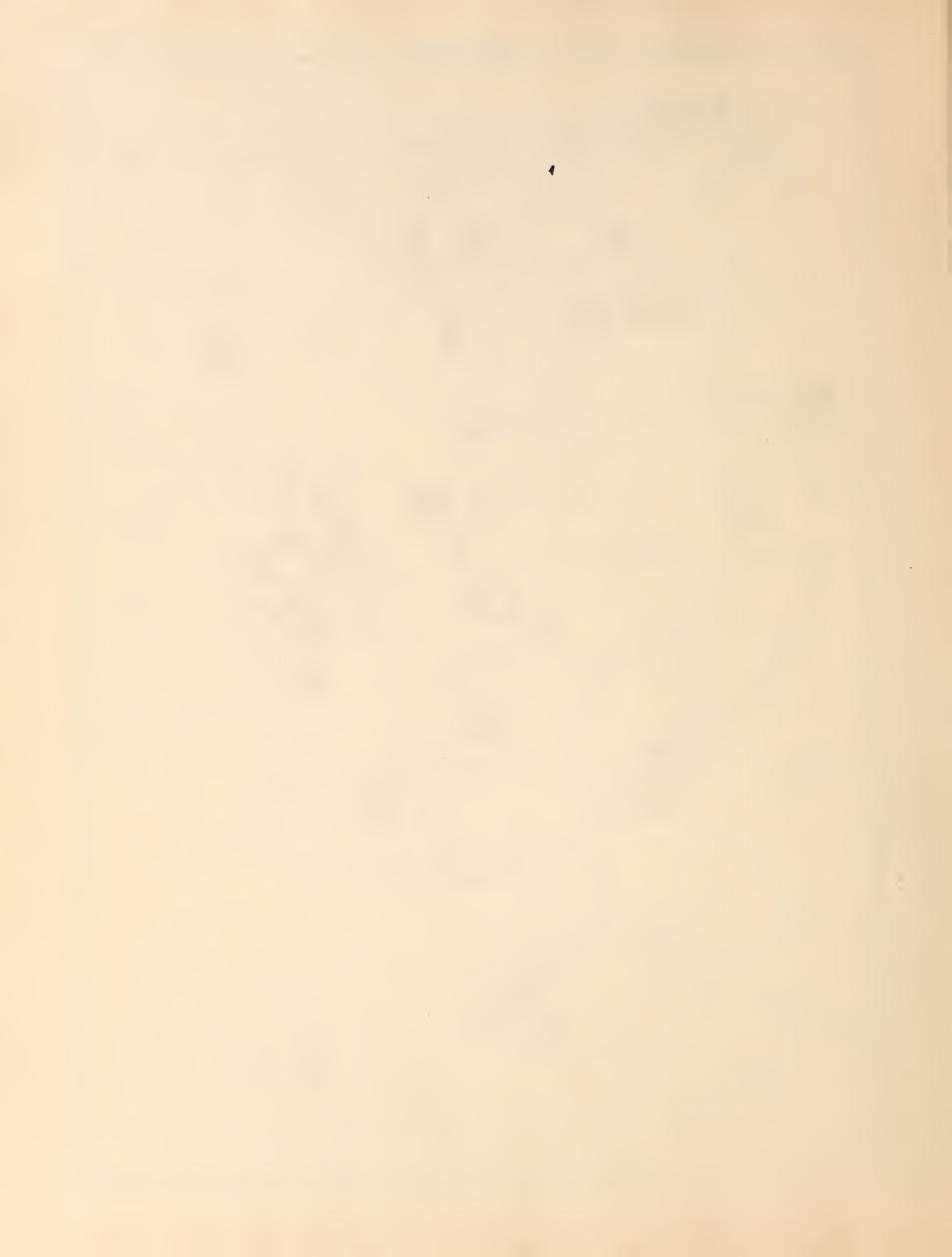








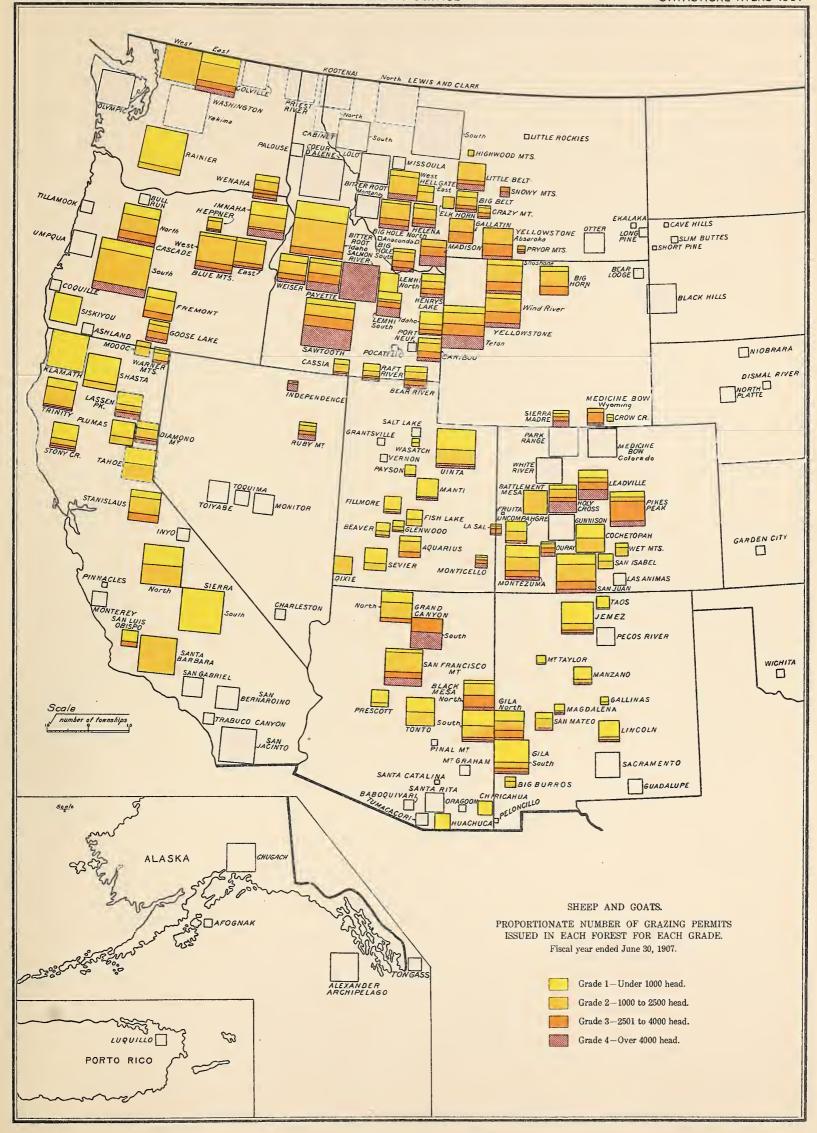


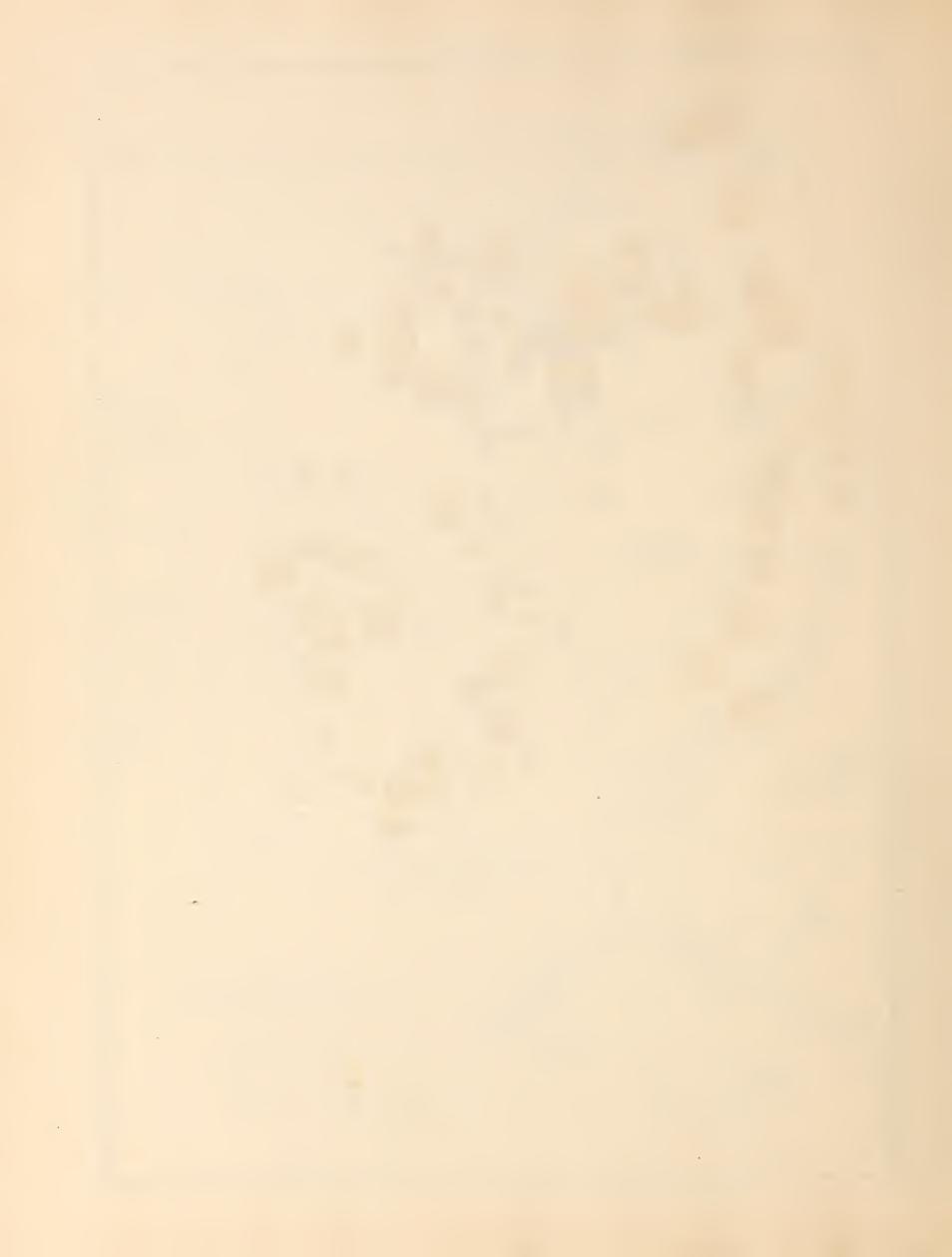


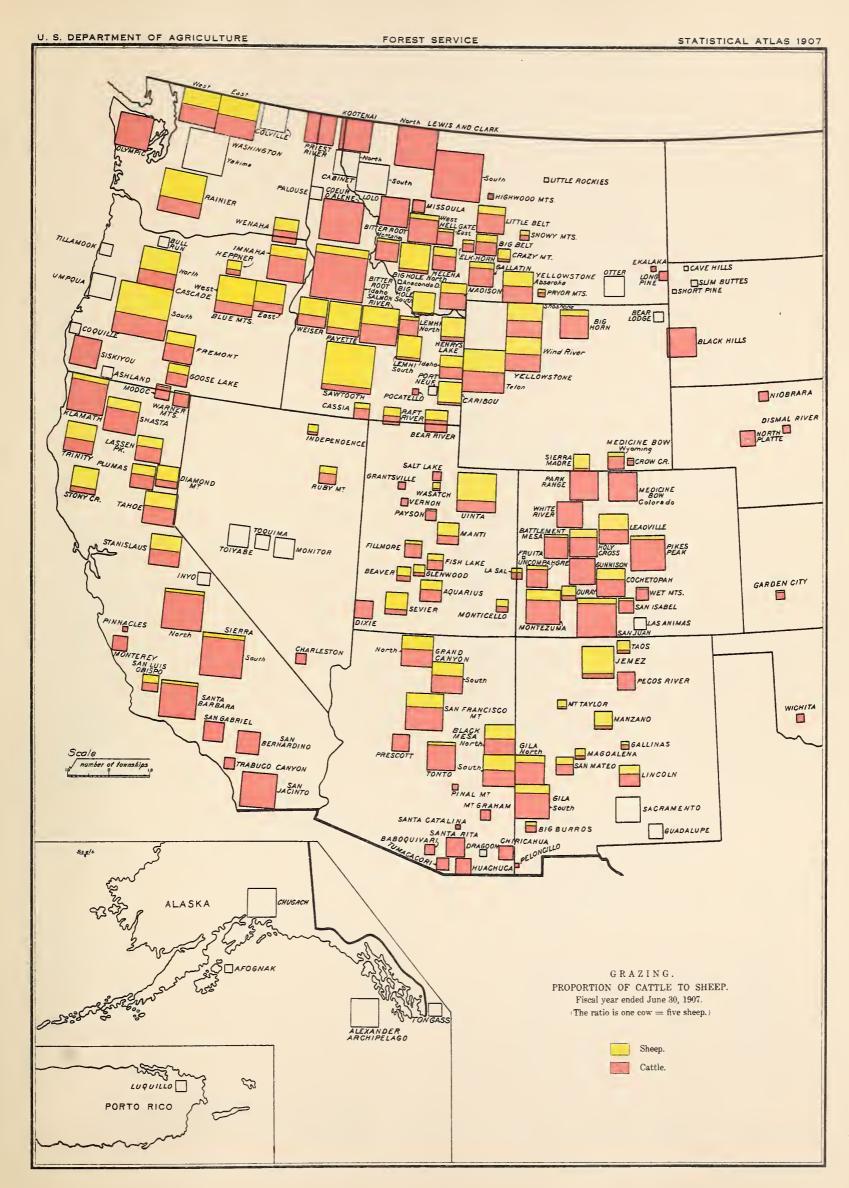














USE OF NATIONAL FOREST LANDS AND RESOURCES.

KIND AND NUMBER OF PERMITS ISSUED SINCE CREATION OF THE FORESTS TO CLOSE OF FISCAL YEAR ENDED JUNE 30, 1907.

SPECIAL USE.

Kind of permit.		aber.	Wal 6		Number.	
		Free.	Kind of permit.	Charge.	Free	
gricultural	245	21	Observatory			
gricultural and pasture	9		Office			
piary	52		Park	1		
ssay office	1		Pasture	396		
anking ground		1	Poultry ranch	1		
arn	6	4	Powder house	1		
ath house	1		Power plant	19		
oat	l	4	Quartz mill			
rick manufacture	2		Railroad	7		
uilding	_	5	Railroad (logging)			
abin	35	18	Railroad siding			
amp	13	5	Railroad station			
attle feed yard	1 1		Reservoir	44	1	
emeterv	1	2	Residence	123	1	
			Resort	20		
harcoal pit		1		20		
hurch			Restaurant	10		
ity reservoir and conduit		1 1	Road	19	2	
ity watershed	1	1	Sale of barbed wire	1		
learing river		1	Sale of sand and stone	1 1		
onduit	89	235	Sanitarium	1	• • • •	
orral	4	55	Saw mill	11	1	
ulvert		1	School	2		
airy	2		Shed	1		
am	2		Skidway			
ipping vat	2		Slaughter house	7		
rain, pipe line, and power house		1	Smelter site	2		
rift fence		140	Stable	1		
ump ground		2	Station ground	4		
ngine	1	i	Stage station	2		
xperiment station		î	Steam boat	_		
		1	Steam thresher			
erry landing	9	_		24		
ish hatchery	25		Store	1	1	
ishing site	2		Telephone		_	
ox ranch		'	Trail			
ay sale	53	• • • • • •	Tramway	8		
otel	53		Tramway (aerial)	1		
unting permit		3	Transmission line	12		
ee pond	1		Trout pond	1		
iln	3		Tunnel			
aundry		1	Use of creek	1		
ime kiln	2		Well			
ivery stable	2		Well, windmill, and tank			
og chute		5	Wharf	2		
ogging pond	1		Windmill	1		
umber camp	Î		Wood yard	1		
umber yard		1	Took jara			
umber yard		1	Total	1311	14	
			Total	1011	1.5	

KIND AND NUMBER OF PERMITS AND NUMBER OF TIMBER SALES.

(Recapitulated by years.)

Year issued.	Special use.	Grazing.	Crossing forest with stock.	Free timber.	Total permits.	Timber sales.
Fiscal years 1891 to 1898 inclusive Fiscal year 1899 Fiscal year 1900 Fiscal year 1901 Fiscal year 1902 Fiscal year 1903 Fiscal year 1904 Fiscal year 1905 Fiscal year 1906 Fiscal year 1907 Total	298 604	2, 317 3, 126 4, 554		283		6 12 31 77 156 377 411 1,023 1,508 3,601

Notes—Canal. ditch, flume. pipe line. and other water transmission permits included with those for conduits.

Special use pasture permits not included under "Grazing."

Two hundred and twenty-three special use permits issued prior to February 1, 1905, included in number reported for fiscal year 1905.

Permits are not required for "prospecting for minerals, transient camping, hunting, fishing, and surveying for lawful projects." (P. 43, Reg. 6 of The Use Book for 1907).



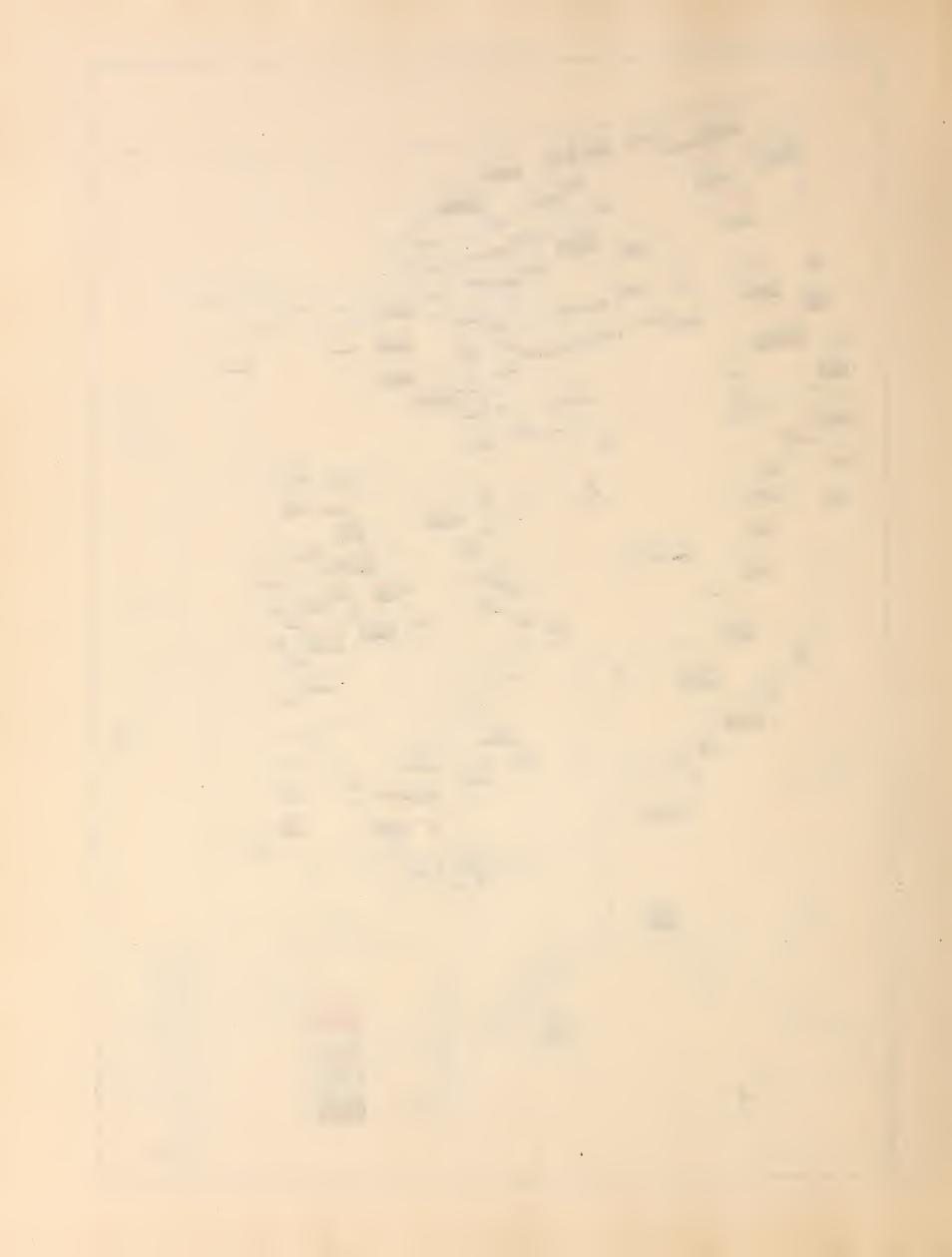
Western larch Others

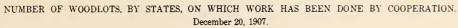
18. Juniper. 19. Aspen. 20. Oak.

21. Western hemlock. 22. Western larch. 23. Others.

LUQUILLO 23

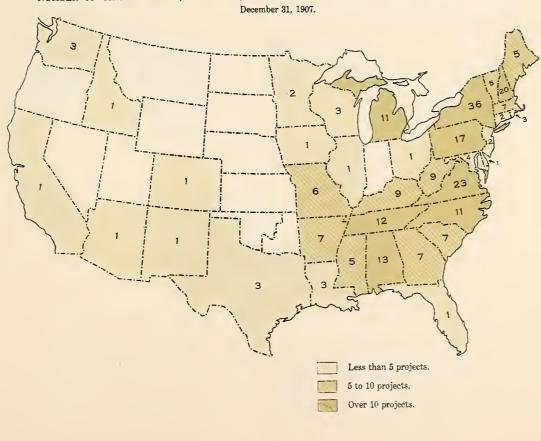
PORTO RICO



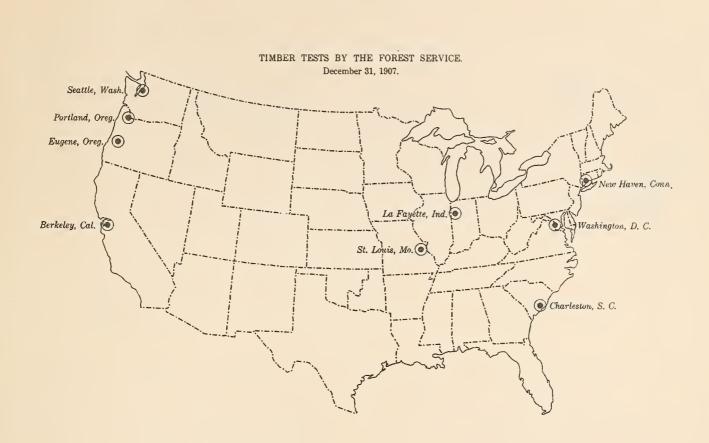


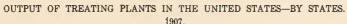


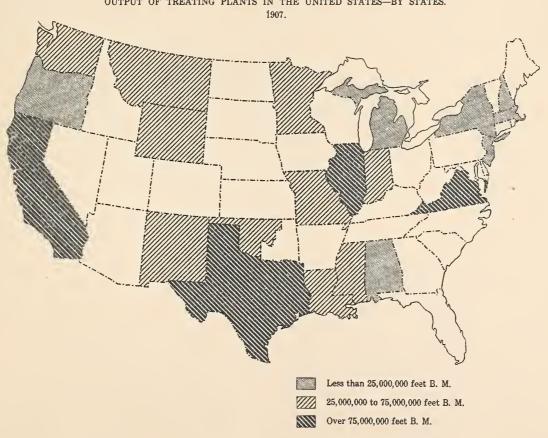
NUMBER OF TIMBER TRACTS, BY STATES, ON WHICH WORK HAS BEEN DONE BY COOPERATION.



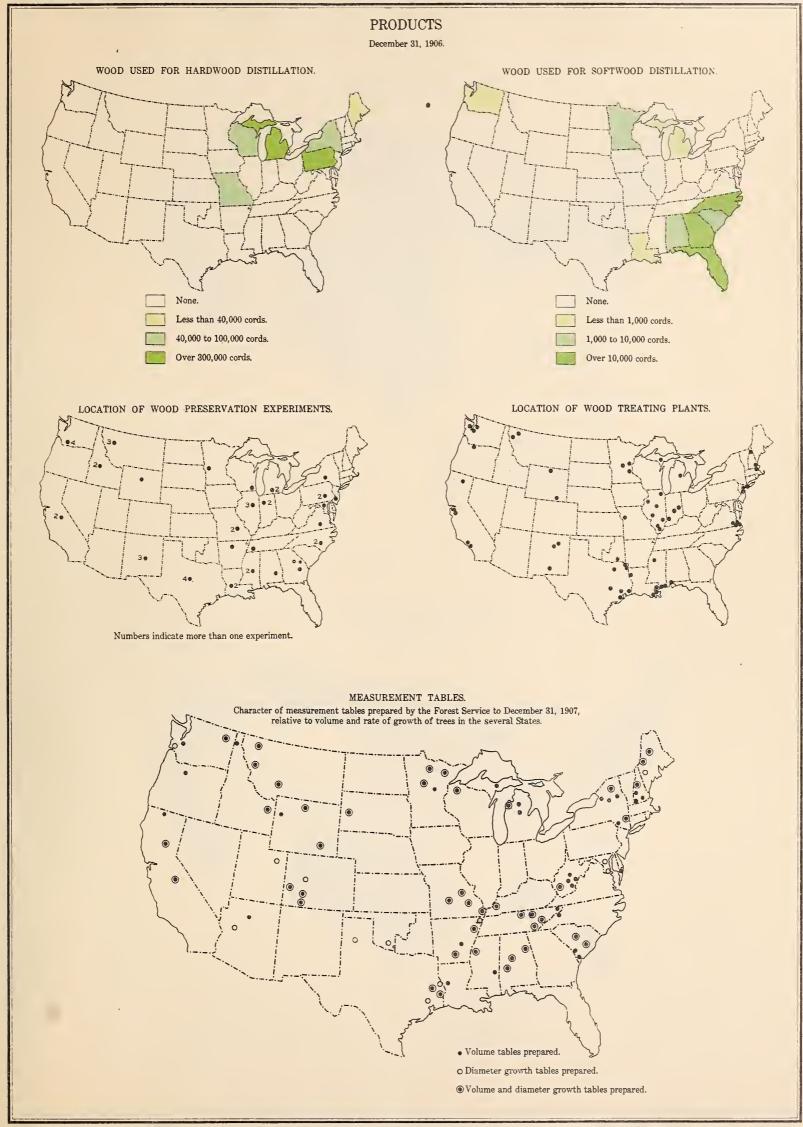




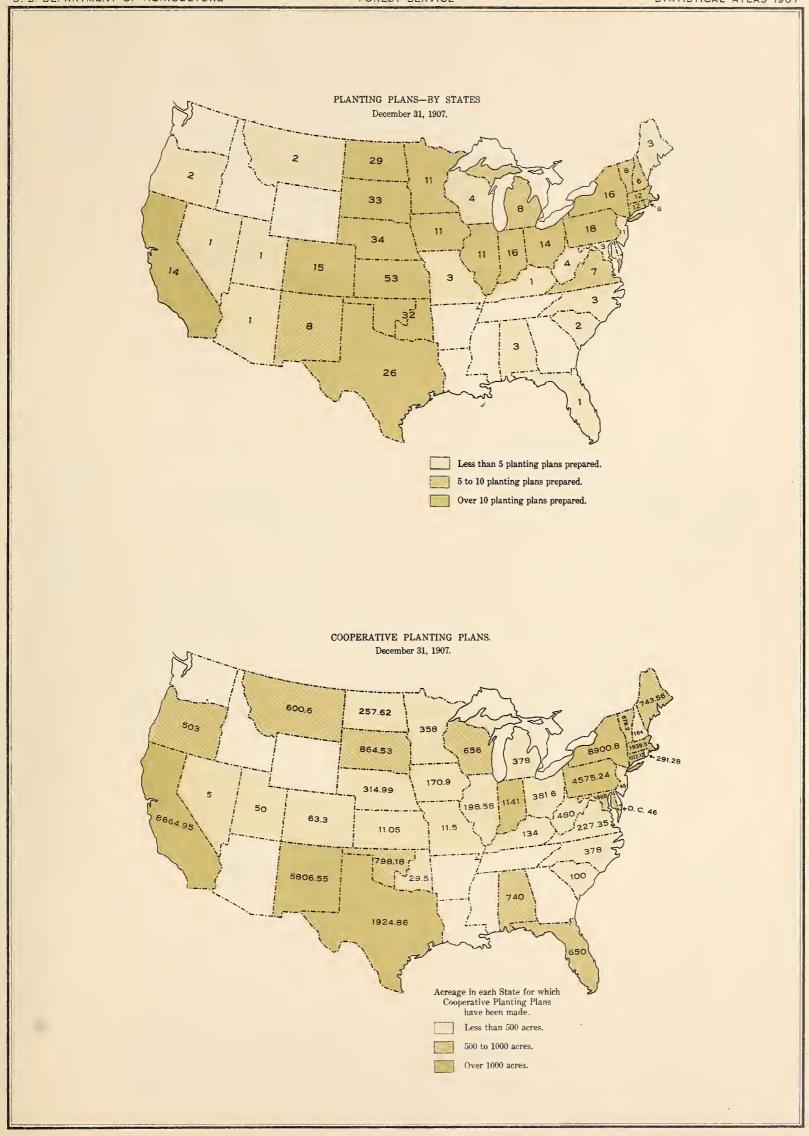


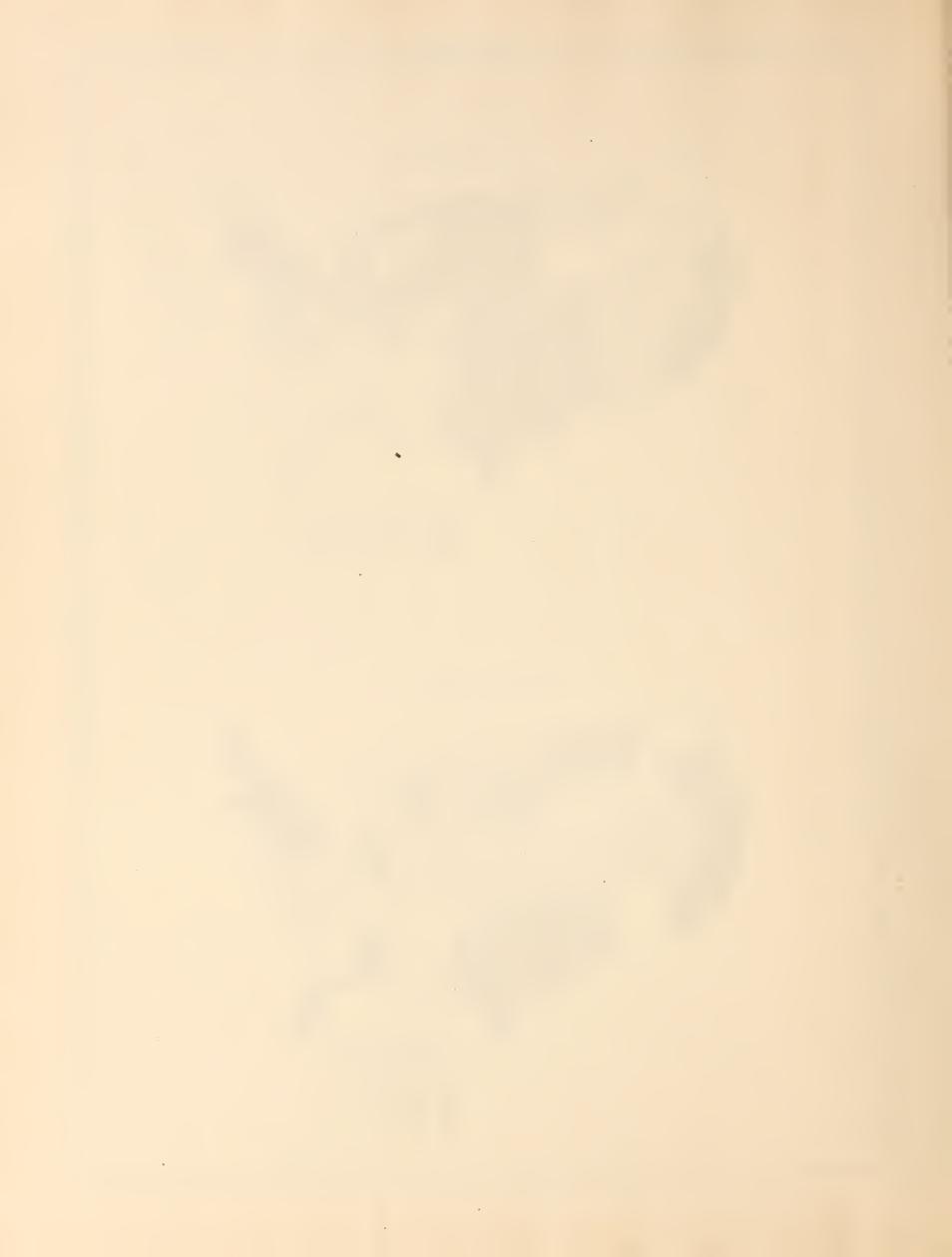


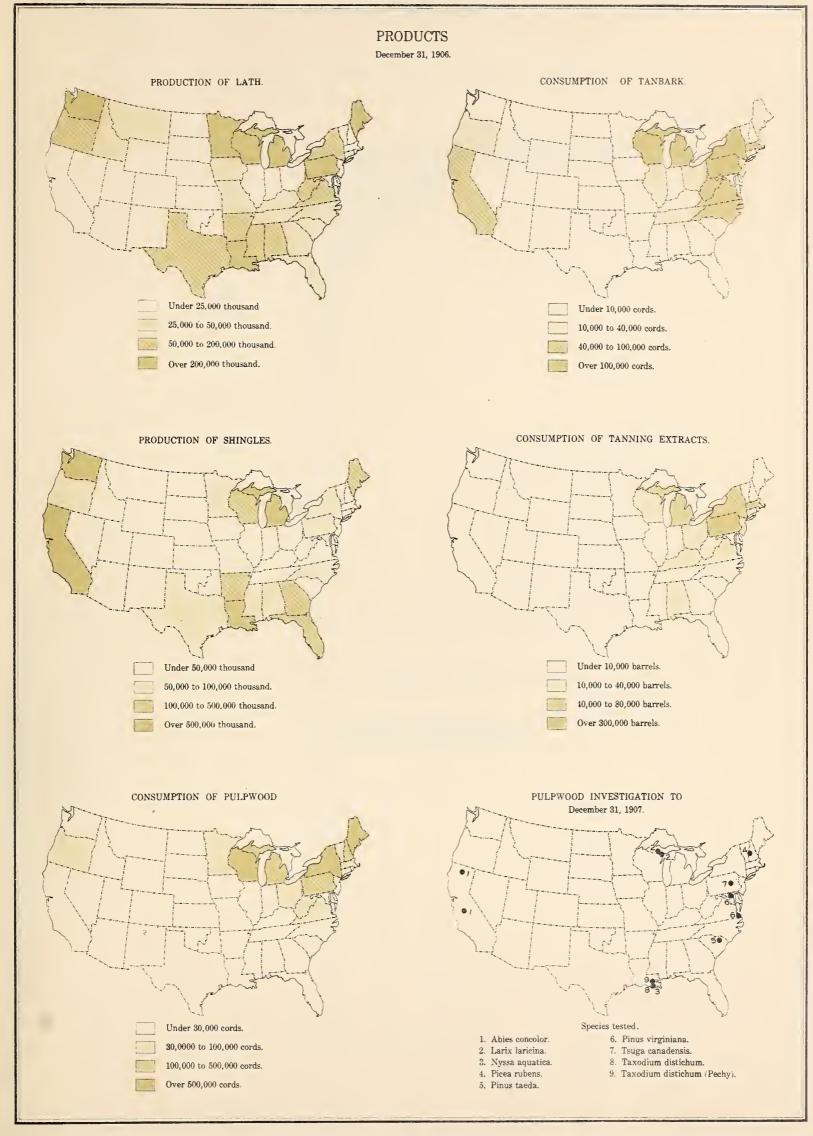


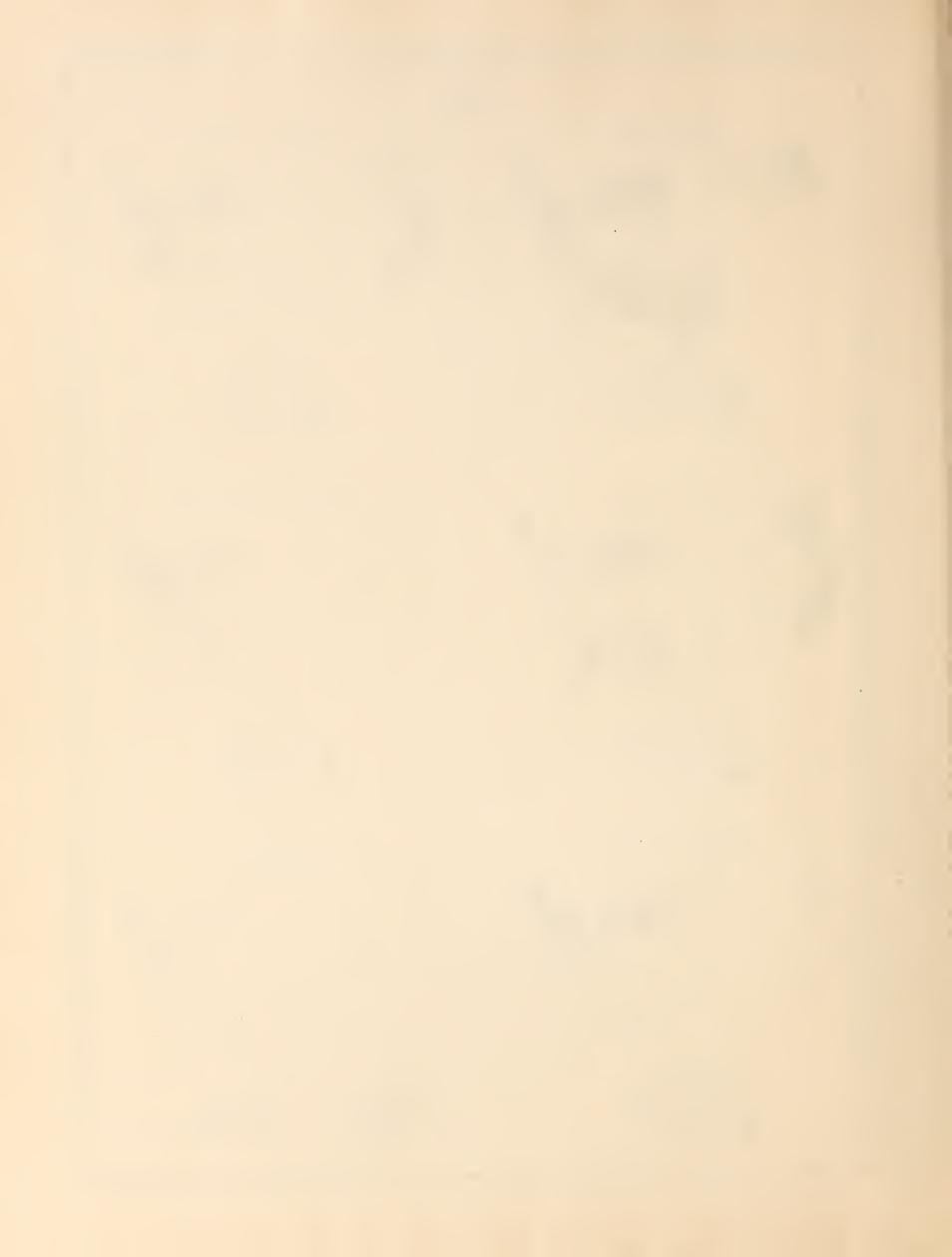




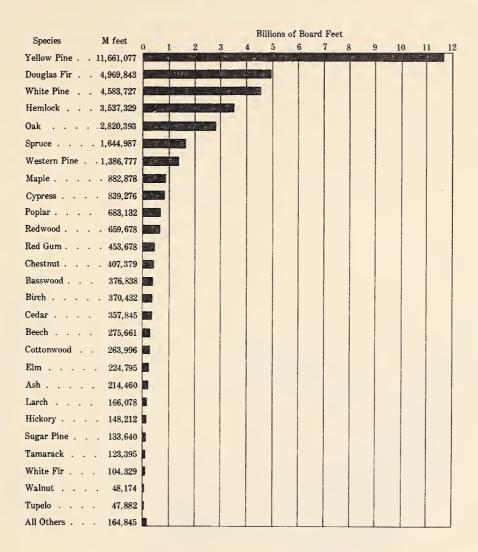




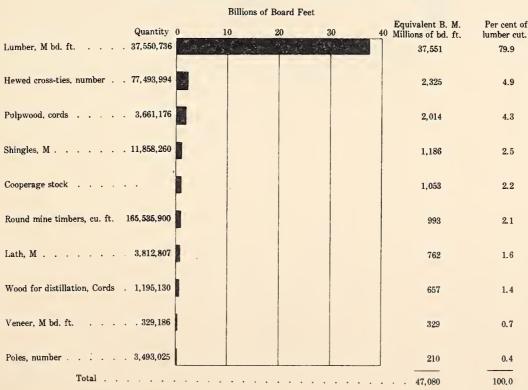




LUMBER CUT OF THE UNITED STATES, BY SPECIES, 1906.



OUTPUT OF FOREST PRODUCTS IN 1906.







COMPARISON OF STUMPAGE VALUES.

For the years 1899, 1904, and 1907.

SPECIES,

AVERAGE VALUE PER THOUSAND FEET.

1899,	1904,	1907.
White pine . \$3.66	\$4.62	\$8.09
Ash 3.03	3.95	7.58
Basswood 1.50	3.89	6.79
Hickory		6.69
Oak a 3.18	3.83	6.52
Spruce 2.26	3.70	b 5.49
Chestnut 2.71	3.39	4.97
Elm 3.30	5.58	4.94
Poplar 2.81	3.89	4.64
Cedar 1.32	1.49	4.63
Hemlock 2.56	3.51	c 4.51
Birch		4.40
Cypress 1.58	3.42	4.37
Cottonwood . 1.45	2.61	3.97
Beech		3.56
Yellow pine . 1.12	1.68	3.16
Maple 2.66	3.82	2.50
Red gum 1.68	1.67	2.46
Redwood 1.06	1.55	2.35
Western pine .		1.66
Douglas fir77	1.05	1.44
Tupelo		1.27

a. White oak only.b. Eastern spruce only.c. Eastern hemlock only.



